

**MSG-079 C-BML Workshop**  
**Farnborough UK, Feb 24-25 2010**

**Coalition Battle Management  
Language  
2009 Experimentation**



**MSG-048**

Report Documentation Page				Form Approved OMB No. 0704-0188	
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1. REPORT DATE <b>FEB 2010</b>		2. REPORT TYPE <b>N/A</b>		3. DATES COVERED <b>-</b>	
4. TITLE AND SUBTITLE <b>Coalition Battle Management Language 2009 Experimentation</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>NATO/RTO</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release, distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>See also ADA564685. 2010 Coalition Battle Management Language Workshop (Atelier 2010 sur le langage de gestion du champ de bataille pour les operations en coalition). RTO-MP-MSG-079</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>SAR</b>	18. NUMBER OF PAGES <b>18</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# MSG-048 Objective

- A. Evaluate the available specification of a Coalition BML (from Simulation Interoperability Standards Organization (SISO) or Nations)
- B. Assess operational benefits to C2 and M&S communities

*In order to support these objectives, the program is divided into four parts*

1. Substantiation of the requirements for NATO C-BML
2. Design for a NATO C-BML demonstration
3. Implementation of C-BML interface standard in C2 and M&S systems and services
4. Conduct an experimentation and assessments and provide a final demonstration

## **Experimentation objectives**

- Showing the benefit for a coalition having improved interconnectedness between all C4I systems and being able to exchange orders and reports in an unambiguous way.
- Showing the benefit of having improved decision aids eg. Course of Action analysis.
- Showing the benefit of being able to support “mission rehearsal” objectively.
- Showing the benefit of improved (faster, more efficient, unambiguous) training support

# Input for experimentation

- Military expertise
  - Scenario development for experiment preparation
  - Playing and assessment during experiment (outsiders)
- Multinational input
  - Know how
  - Systems
  - Personnel
- System design agreements (requirements)
- Experimentation plan
- Evaluation
  - Measures of Merit
  - Questionnaires

# Caspian Sea Scenario

- Fictional but detailed scenario with history of area and road to war.
- Scenario is Multi-Service and Multi-National.



# Caspian Sea Scenario 1 HBCT Execution

The 1HBCT will move quickly through zone while fixing and bypassing squad or smaller sized enemy elements in zone and establishing our forces on the International border.

Terrain objectives are for orientation only.

Destroy enemy armor that engages our elements or occupies positions on key terrain in objectives CAT and DOG.

At the conclusion of the operation, 1HBCT will have

- Destroyed enemy armor occupying key terrain in Zone;
- Established hasty defensive positions in objectives LION and TIGER; Be at least 80% combat power;

# ORBAT 1HBCT

- **NOR 1-22 Combined Arms Battalion**
  - 29 MBT;
  - 28 IFV.
- **FRA 1-66 Combined Arms Battalion**
  - 29 MBT;
  - 28 IFV.
- **USA Armored Reconnaissance Squadron**
- **GBR CAS (25 sorties per day fixed/rotary)**
- **CAN UAV (several sorties per day)**





# Caspian Sea Scenario 1 HBCT assignments to subordinate commanders

You are the commander of 1-66 CAB. You are assigned to attack along axis of advance PORSCHE as the main effort to seize objective DOG.

You are the commander of 1-22 CAB. You are assigned to conduct a supporting attack along axis CORVETTE to seize objective CAT.

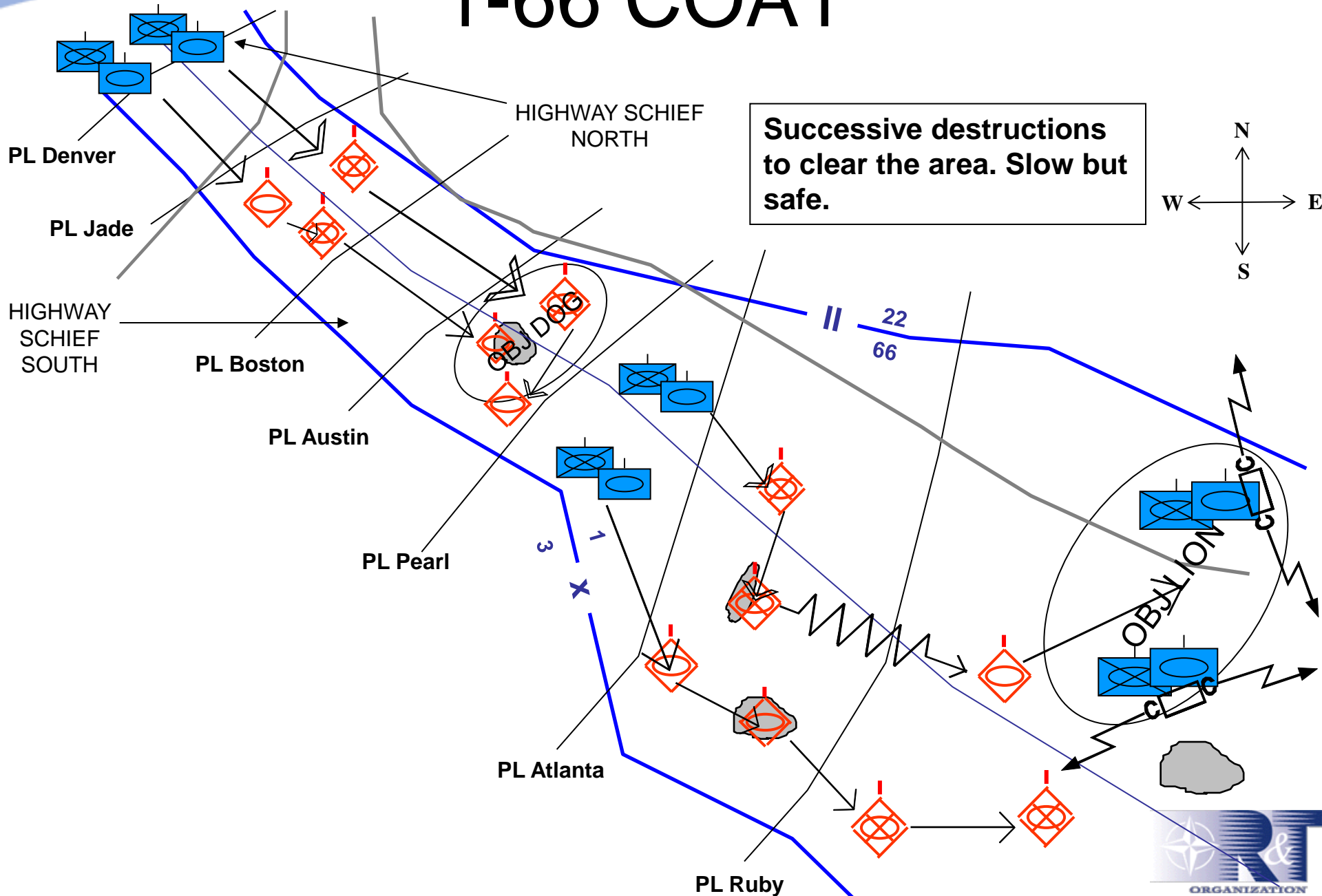
You are the commander of 4 Aviation Wing. You are assigned to support ground operations throughout the 1HBCT AO with 25 Sorties daily;

You are the commander of A-104 Military Intelligence. You are assigned to detect enemy formations throughout the 1HBCT AO through extensive use of UAV to identify Arianan defensive positions.

# Scenario / Courses of Action

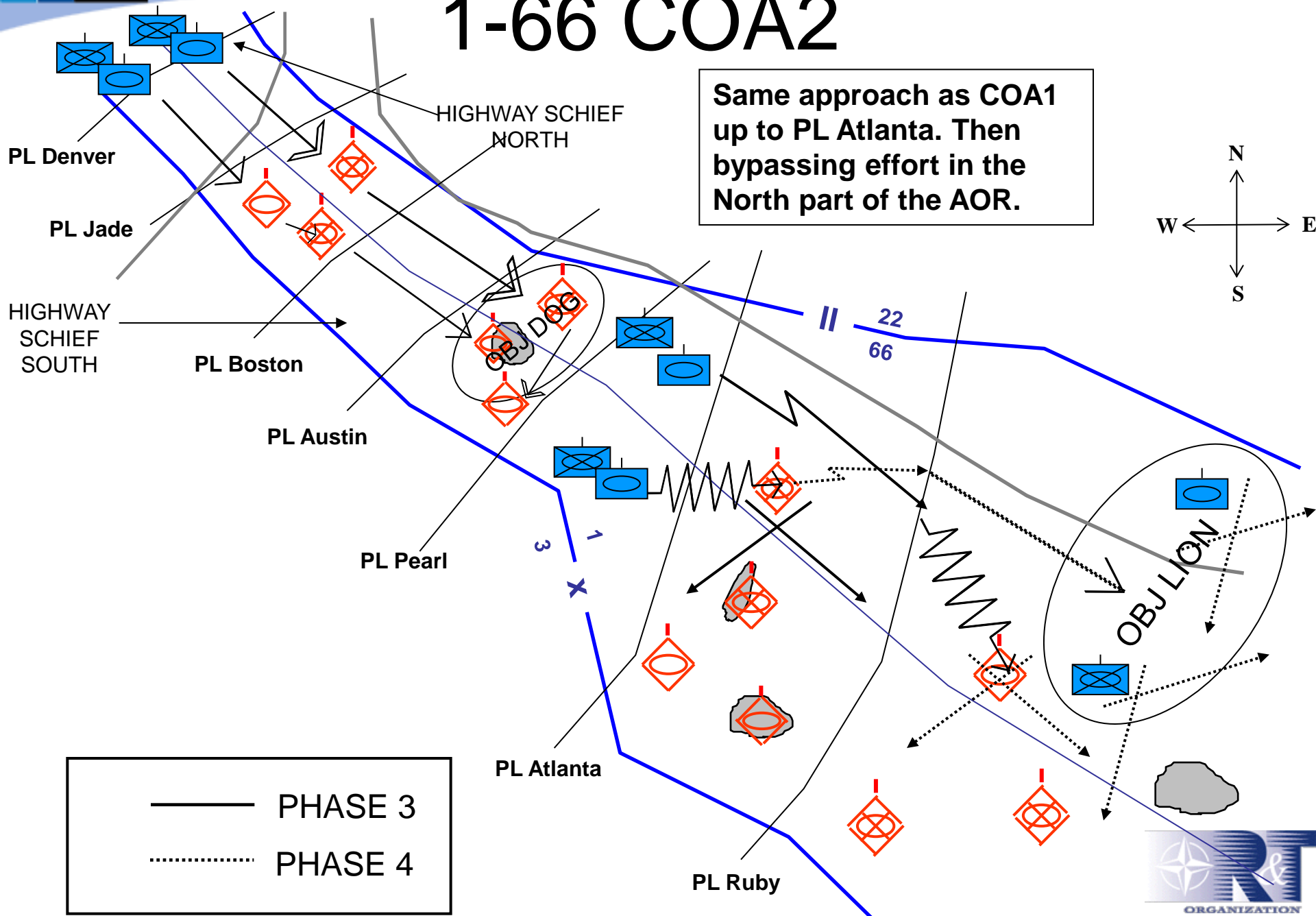
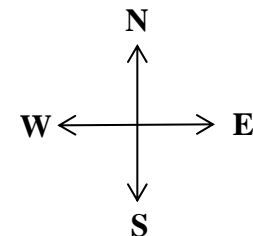
- NOR 1-22
  - 2 COAs
  - 2 ECOAs
- FRA 1-66
  - 2 COAs
  - 2 ECOAs
- USA Armored Reconnaissance Squadron
  - Fixed COA
- GBR Aviation Wing
  - Ad hoc Support
- CAN Air Support
  - Tactical Air Reconnaissance and Fire Support

# 1-66 COA1



# 1-66 COA2

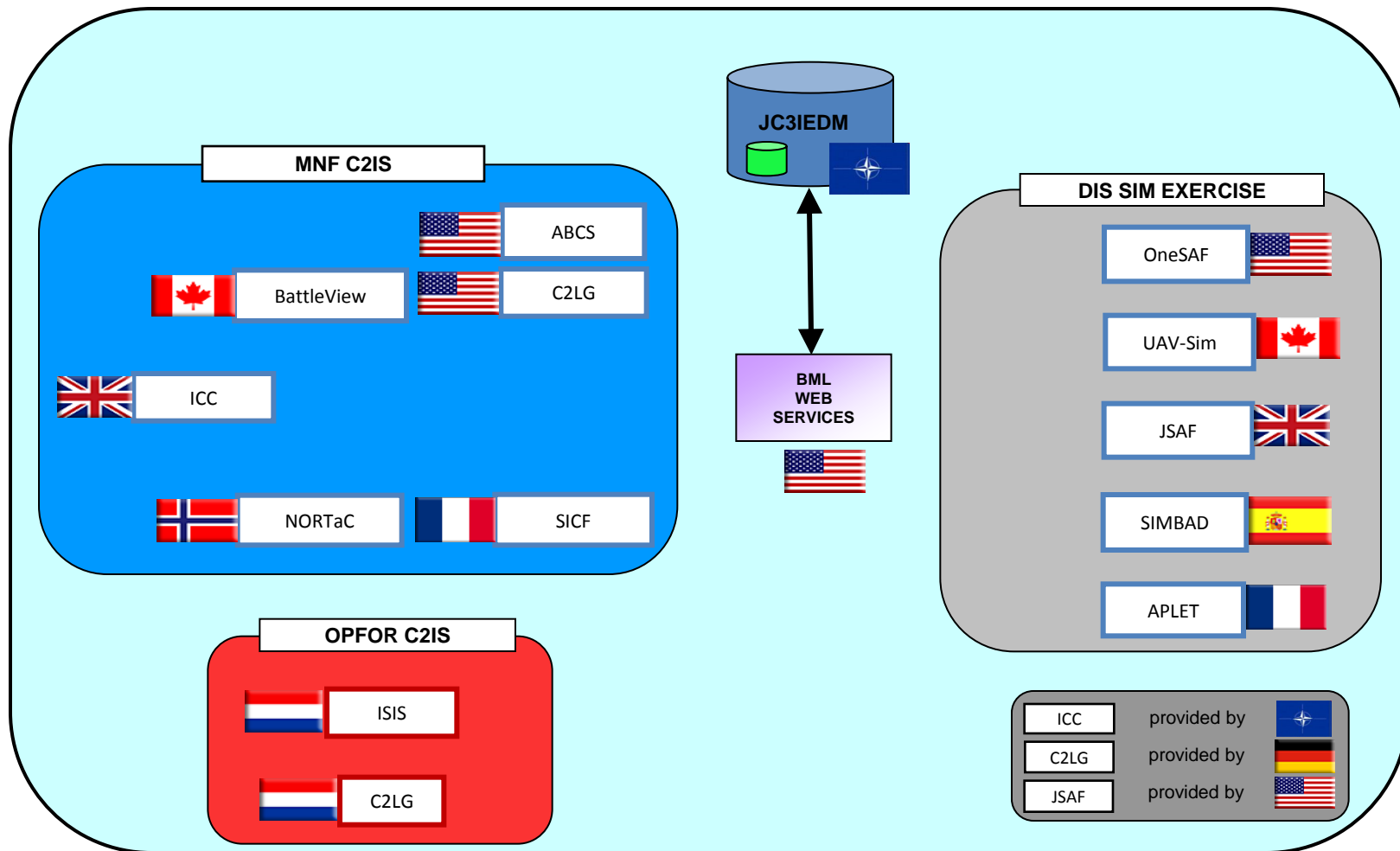
**Same approach as COA1  
up to PL Atlanta. Then  
bypassing effort in the  
North part of the AOR.**



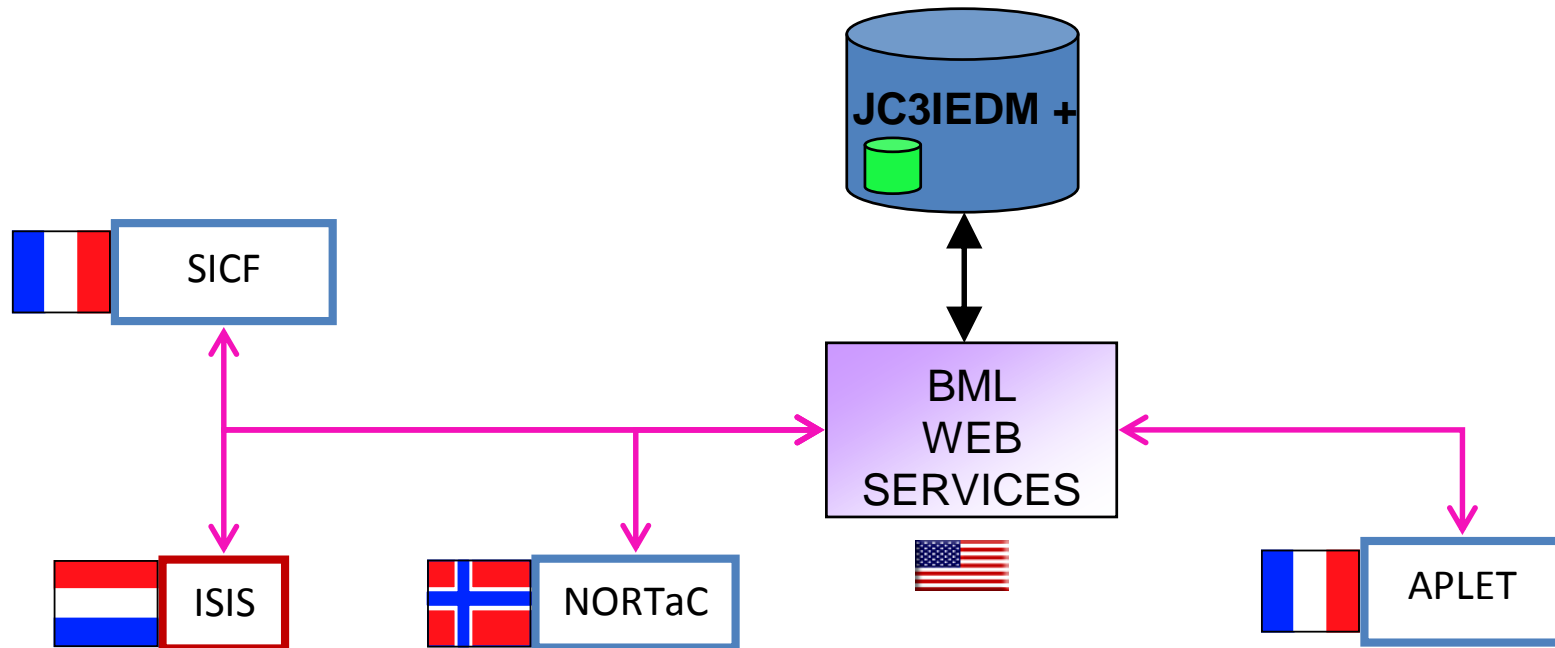
# Three initial use cases

- Planning
- Training (use of chosen COA from planning phase)
- Mission rehearsal

## Participating systems

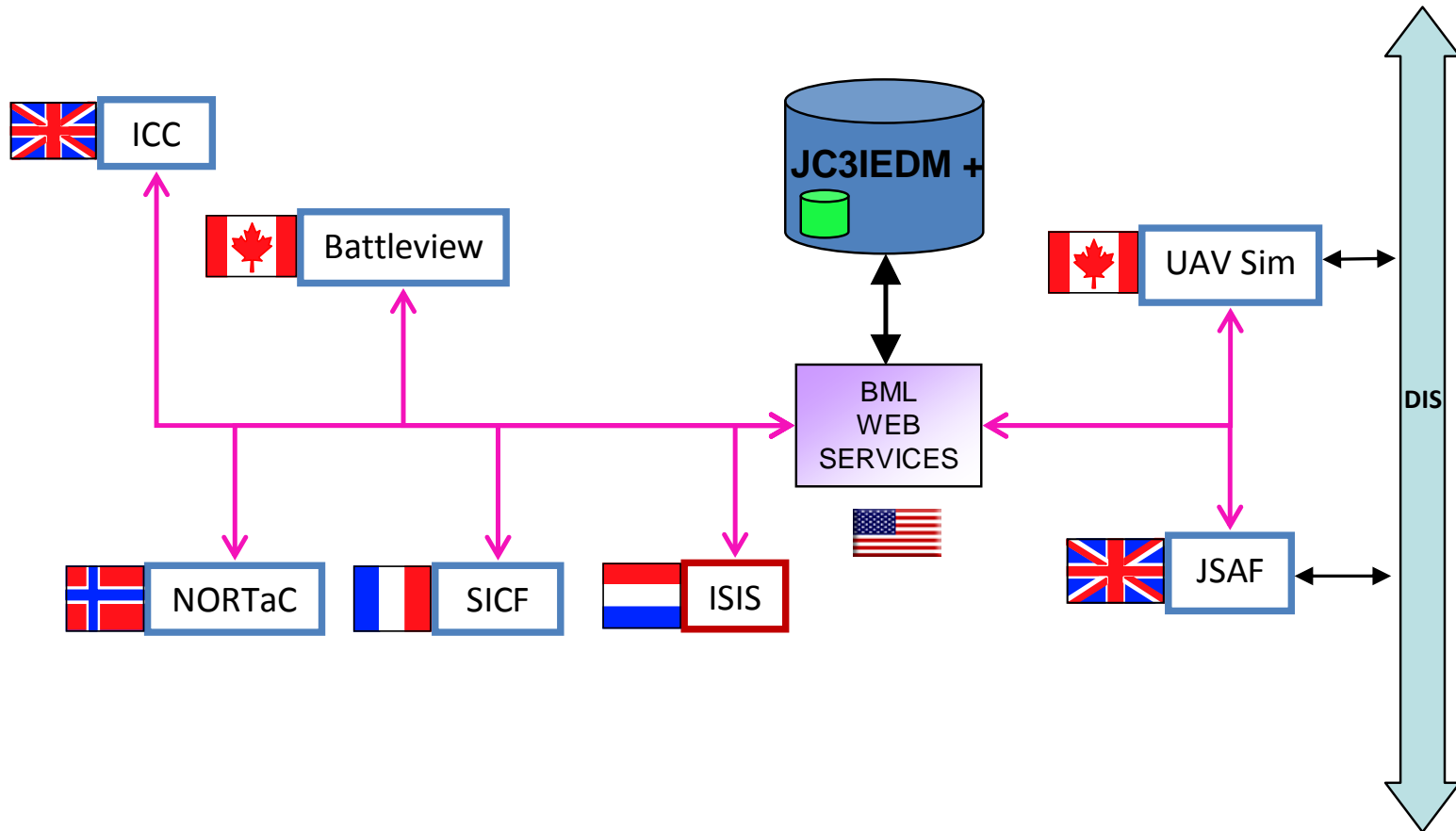


# Planning

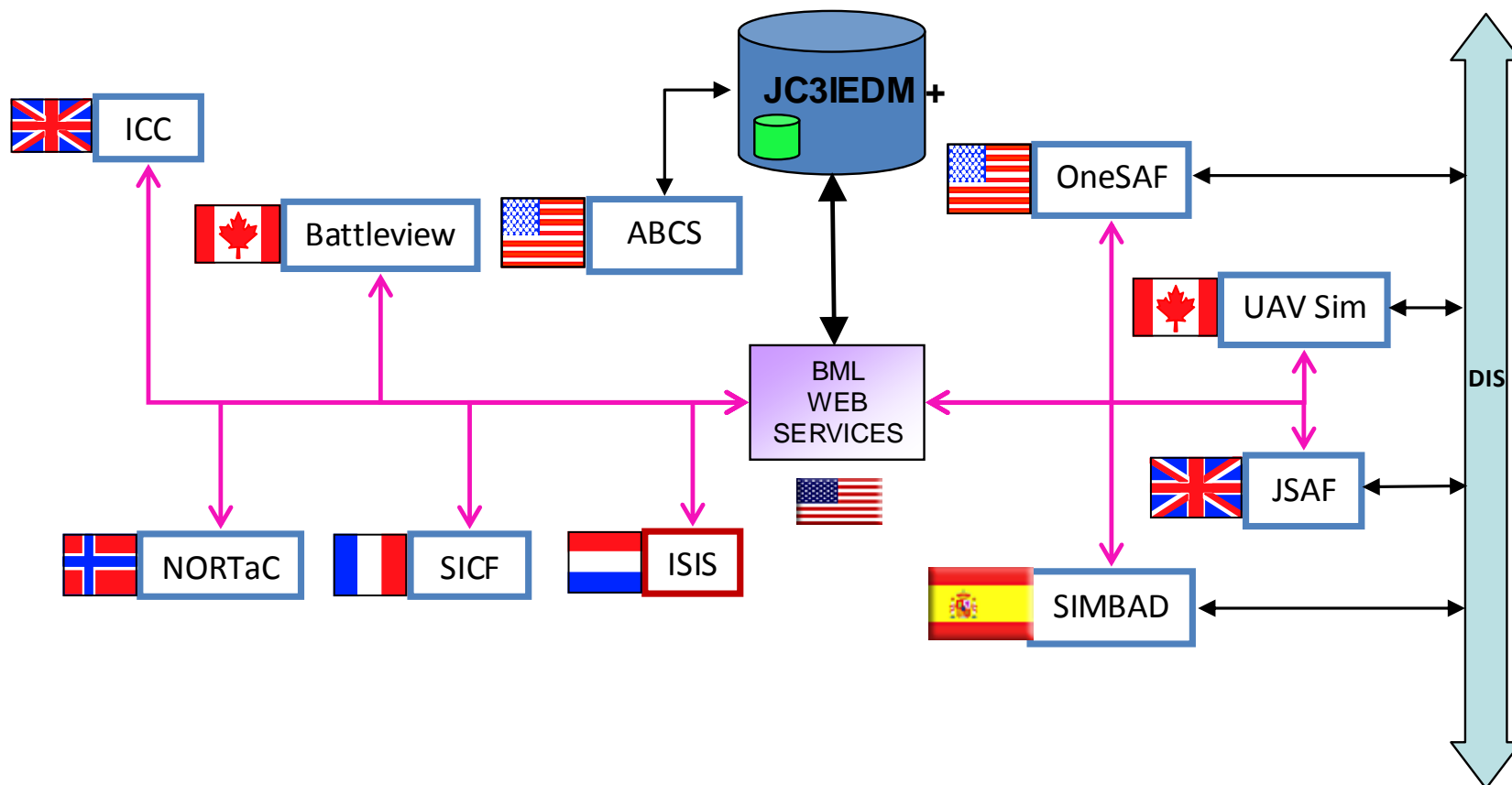




# Training



# Mission rehearsal



# Movie from experiment

- [Click here](#)